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L1	1944	715/513.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/24 07:50
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L3	0	345/760.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/24 07:50
L4	231	715/760.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/24 07:50
L5	32	schema same html same (render$3 display$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/24 07:50
L6	25	dynamic same (presentat$3 display$3) same html same chang$3 same source	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/24 07:51
L7	32	schema same html same (render$3 display$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/24 07:51
L8	68	schema same xml same (render$3 display$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/24 07:51
L9	9	8 message	USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/03/24 07:59
L10	8	xml schema display$3 message	USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/03/24 07:57

L11	33	xml schema display$3 message	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/03/24 07:57
L12	0	8 binary	USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/03/24 07:59

	1	Document ID	Issue Date	Title	Current OR
1		US 6868447 B1	20050315	Mechanism and apparatus for returning results of services in a distributed computing environment	709/225
2		US 6862594 B1	20050301	Method and apparatus to discover services using flexible search criteria	707/10
3		US 6850979 B1	20050201	Message gates in a distributed computing environment	709/225
4		US 6792466 B1	20040914	Trusted construction of message endpoints in a distributed computing environment	709/229
5		US 6789126 B1	20040907	Addressing message gates in a distributed computing environment	709/245
6		US 6789077 B1	20040907	Mechanism and apparatus for web-based searching of URI-addressable repositories in a distributed computing environment	707/10

	1	Document ID	Issue Date	Title	Current OR
7		US 6741992 B1	20040525	Flexible rule-based communication system and method for controlling the flow of and access to information between computer users	707/10
8		US 6643650 B1	20031104	Mechanism and apparatus for using messages to look up documents stored in spaces in a distributed computing environment	707/10
9		US 6631367 B2	20031007	Method and apparatus to search for information	707/3

	1	Document ID	Issue Date	Title	Current OR	Inventor	2
1		US 20050060317 A1	20050317	Method and system for the specification of interface definitions and business rules and automatic generation of message validation and transformation software	707/10	Lott, Christopher Martin et al.	
2		US 20050057436 A1	20050317	Information system supporting customizable user interfaces and process flows	345/2.1	Alden, Rhett et al.	
3		US 20050060317 A1	20050317	Method and system for the specification of interface definitions and business rules and automatic generation of message validation and transformation software	707/10	Lott, Christopher Martin et al.	
4		US 20050057436 A1	20050317	Information system supporting customizable user interfaces and process flows	345/2.1	Alden, Rhett et al.	
5		US 20050010087 A1	20050113	Wireless, internet-based medical-diagnostic system	600/300	Banet, Matthew et al.	

	1	Document ID	Issue Date	Title	Current OR	Inventor	2
6		US 20040204775 A1	20041014	Economic calculations in process control system	700/29	Keyes, Marion A. et al.	
7		US 20040153968 A1	20040805	Method and system for user customizable asset metadata generation in a web-based asset management system	715/513	Ching, Jennie et al.	
8		US 20040111672 A1	20040610	System and method for extending scalable vector graphics capabilities	715/513	Bowman, Gordon et al.	
9		US 20040056890 A1	20040325	Method and system for provisioning mobile device machine interfaces	715/744	Hao, Ying et al.	
10		US 20040034639 A1	20040219	Flexible rule-based communication system and method for controlling the flow of and access to information between computer users	707/10	McFadden, Brian D.	
11		US 20040006598 A1	20040108	Method and system of sending and tracking electronic mail messages	709/206	Bargagli Damm, Roberto Francisco et al.	

	1	Document ID	Issue Date	Title	Current OR	Inventor	2
12		US 20040002950 A1	20040101	Methods and apparatus for process, factory-floor, environmental, computer aided manufacturing-based or other control system using hierarchically enumerated data set	707/1	Brennan, Sean F. et al.	
13		US 20030236903 A1	20031225	Method and apparatus for structured streaming of an XML document	709/231	Piotrowski, Daniel J.	
14		US 20030233420 A1	20031218	Method and system for content driven electronic messaging	709/206	Stark, Juergen et al.	
15		US 20030225469 A1	20031204	Methods and apparatus for process, factory-floor, environmental, computer aided manufacturing-based or other control system with unified messaging interface	700/96	DeRemer, Robert A. et al.	

	1	Document ID	Issue Date	Title	Current OR	Inventor	2
16		US 20030225462 A1	20031204	Component object model communication method for process, factory-floor, environmental, computer aided manufacturing-based or other control system	700/1	Bachman, George E. et al.	
17		US 20030220707 A1	20031127	Workflow control configurator for use with process, factory-floor, environmental, computer aided manufacturing-based or other control system	700/97	Budinger, Bruce D. et al.	
18		US 20030217054 A1	20031120	Methods and apparatus for process, factory-floor, environmental, computer aided manufacturing-based or other control system with real-time data distribution	707/4	Bachman, George E. et al.	
19		US 20030217053 A1	20031120	Context control mechanism for data executed in workflows of process, factory-floor, environmental, computer aided manufacturing-based or other control system	707/4	Bachman, George E. et al.	

	1	Document ID	Issue Date	Title	Current OR	Inventor	2
20		US 20030195934 A1	20031016	Web services-based communications for use with process control systems	709/206	Peterson, Neil J. et al.	
21		US 20030097306 A1	20030522	Shipping system and method utilizing an application programming interface for faciltating transfer of information related to shipping of packages	705/26	Boucher, Glen A. et al.	
22		US 20030041180 A1	20030227	System and method for building source code for connecting to systems	719/328	Schlussman, Bret D.	
23		US 20020087915 A1	20020704	Error handler method and system for internet-based applications	714/15	Perla, Jesse et al.	
24		US 20020035584 A1	20020321	icFoundation web site development software and icFoundation biztalk server 2000 integration	715/517	Scheier, Paul et al.	

	1	Document ID	Issue Date	Title	Current OR	Inventor	2
25		US 20010034733 A1	20011025	System and method for providing access to databases via directories and other hierarchical structures and interfaces	707/102	Prompt, Michel et al.	
26		US 6868447 B1	20050315	Mechanism and apparatus for returning results of services in a distributed computing environment	709/225	Slaughter; Gregory L. et al.	
27		US 6862594 B1	20050301	Method and apparatus to discover services using flexible search criteria	707/10	Saulpaugh; Thomas E. et al.	
28		US 6850979 B1	20050201	Message gates in a distributed computing environment	709/225	Saulpaugh; Thomas E. et al.	
29		US 6792466 B1	20040914	Trusted construction of message endpoints in a distributed computing environment	709/229	Saulpaugh; Thomas E. et al.	
30		US 6789126 B1	20040907	Addressing message gates in a distributed computing environment	709/245	Saulpaugh; Thomas E. et al.	

	1	Document ID	Issue Date	Title	Current OR	Inventor	2
31		US 6789077 B1	20040907	Mechanism and apparatus for web-based searching of URI-addressable repositories in a distributed computing environment	707/10	Slaughter; Gregory L. et al.	
32		US 6741992 B1	20040525	Flexible rule-based communication system and method for controlling the flow of and access to information between computer users	707/10	McFadden; Brian D.	
33		US 6643650 B1	20031104	Mechanism and apparatus for using messages to look up documents stored in spaces in a distributed computing environment	707/10	Slaughter; Gregory L. et al.	

Terms used **message p schema p display??? p binary** Found **225** of **151,219**

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1 Abstract state machines capture parallel algorithms
Andreas Blass, Yuri Gurevich
October 2003 **ACM Transactions on Computational Logic (TOCL)**, Volume 4 Issue 4
Full text available: pdf(610.28 KB) Additional Information: full citation, abstract, references, index terms

We give an axiomatic description of parallel, synchronous algorithms. Our main result is that every such algorithm can be simulated, step for step, by an abstract state machine with a background that provides for multisets.

Keywords: ASM thesis, Parallel algorithm, abstract state machine, postulates for parallel computation

2 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 From text to hypertext by indexing
Airi Salminen, Jean Tague-Sutcliffe, Charles McClellan
January 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 1
Full text available: pdf(1.98 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A model is presented for converting a collection of documents to hypertext by means of indexing. The documents are assumed to be semistructured, i.e., their text is a hierarchy of parts, and some of the parts consist of natural language. The model is intended as a framework for specifying hypertextual reading capabilities for specific application areas and for developing new automated tools for the conversion of semistructured text to hypertext. In the model, two well-known paradigms— ...

Keywords: constrained grammars, grammars, hypertext, properties, structured text, test types, text entities, transient hypergraphs

4 System support for pervasive applications
Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Full text available: pdf(1.82 MB) Additional Information: full citation, abstract, references, index terms

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

5 Technical reports
SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available: pdf(5.28 MB) Additional Information: full citation

6 The Desert environment
Steven P. Reiss
October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 4

Full text available: pdf(868.64 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The Desert software engineering environment is a suite of tools developed to enhance programmer productivity through increased tool integration. It introduces an inexpensive form of data integration to provide additional tool capabilities and information sharing among tools, uses a common editor to give high-quality semantic feedback and to integrate different types of software artifacts, and builds virtual files on demand to address specific tasks. All this is done in an open and extensibl ...

Keywords: integrated programming environments, program editors

7 Semantic database modeling: survey, applications, and research issues
Richard Hull, Roger King
September 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 3

Full text available: pdf(5.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Most common database management systems represent information in a simple record-based format. Semantic modeling provides richer data structuring capabilities for database applications. In particular, research in this area has articulated a number of constructs that provide mechanisms for representing structurally complex interrelations among data typically arising in commercial applications. In general terms, semantic modeling complements work on knowledge representation (in artificial int ...

8 The 3DIS: an extensible object-oriented information management environment
Hamideh Afsarmanesh, Dennis McLeod
October 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 4

Full text available: pdf(2.79 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The 3-Dimensional Information Space (3DIS) is an extensible object-oriented framework for information management. It is specifically oriented toward supporting the database requirements for data-intensive information system applications in which (1) information objects of various levels of abstraction and modalities must be accommodated, (2) descriptive and structural information (metadata) is rich and dynamic, and (3) users who are not database experts must be able to design, manipulate, a ...

9 Automatic construction of explanation networks for a cooperative user interface

Philip J. Hayes, Ingrid D. Glasner

May 1981 **ACM SIGSOC Bulletin , Proceedings of the joint conference on Easier and more productive use of computer systems. (Part - II): Human interface and the user interface - Volume 1981**, Volume 13 Issue 2-3

Full text available: pdf(822.19 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper is concerned with providing automatically generated on-line explanations to the user of a functional computer subsystem or tool about what the tool can and cannot do, what parameters and options are available or required with a given command, etc.. The explanations are given through the COUSIN interface system which provides a cooperative tool-independent user interface for tools whose objects, operations, input syntax, display formats, etc. are ...

10 Status report of the graphic standards planning committee

Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Full text available: pdf(15.01 MB) Additional Information: full citation, references, citings

11 On type systems for object-oriented database programming languages

Yuri Leontiev, M. Tamer Özsu, Duane Szafron

December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4

Full text available: pdf(346.87 KB) Additional Information: full citation, abstract, references, index terms

The concept of an object-oriented database programming language (OODBPL) is appealing because it has the potential of combining the advantages of object orientation and database programming to yield a powerful and universal programming language design. A uniform and consistent combination of object orientation and database programming, however, is not straightforward. Since one of the main components of an object-oriented programming language is its type system, one of the first problems that ar ...

Keywords: OODB, OODBPL, object-oriented database programming language, type checking, typing

12 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available: pdf(6.94 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

13 RIDL*: a tool for the computer-assisted engineering of large databases in the presence of integrity constraints

O. De Troyer

June 1989 **ACM SIGMOD Record , Proceedings of the 1989 ACM SIGMOD international conference on Management of data**, Volume 18 Issue 2

Full text available: pdf(1.30 MB) Additional Information: full citation, abstract, references, citings, index terms

Tools and methods that transform higher level formalisms into logical database designs become very important. Rarely if ever do these transformations take into account integrity constraints existing in the "conceptual" model. Yet these become essential if one is forced to introduce redundancies for reasons of e.g. query efficiency. We therefore adopted the Binary Relationship Model (or "NIAM") that is rich in constraints and built a flexible tool, RIDL*

14 The role of time in information processing: a survey

A. Bolour, T. L. Anderson, L. J. Dekeyser, H. K. T. Wong

April 1982 **ACM SIGMOD Record**, Volume 12 Issue 3

Full text available: pdf(2.16 MB) Additional Information: full citation, references, citings

15 Collaborative conceptual schema design: a process model and prototype system

Sudha Ram, V. Ramesh

October 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 4

Full text available: pdf(677.75 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Recent years have seen an increased interest in providing support for collaborative activities among groups of users participating in various information systems design tasks such as, requirements determination and process modeling. However, little attention has been paid to the collaborative conceptual database design process. In this article, we develop a model of the collaborative conceptual schema development process and describe the design and implementation of a graphical multiuser c ...

Keywords: collaboration, conceptual modeling, database design, graphical CASE tools, groupware, semantic modeling

16 Automated resolution of semantic heterogeneity in multidatabases

M. W. Bright, A. R. Hurson, S. Pakzad

June 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 2

Full text available: pdf(2.84 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A multidatabase system provides integrated access to heterogeneous, autonomous local databases in a distributed system. An important problem in current multidatabase systems is identification of semantically similar data in different local databases. The Summary Schemas Model (SSM) is proposed as an extension to multidatabase systems to aid in semantic identification. The SSM uses a global data structure to abstract the information available in a multidatabase system. This abstracted form a ...

Keywords: federated database, imprecise queries, multidatabase, schemas, semantic heterogeneity

17 A relational approach to monitoring complex systems
Richard Snodgrass
May 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 2

Full text available: pdf(3.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Monitoring is an essential part of many program development tools, and plays a central role in debugging, optimization, status reporting, and reconfiguration. Traditional monitoring techniques are inadequate when monitoring complex systems such as multiprocessors or distributed systems. A new approach is described in which a historical database forms the conceptual basis for the information processed by the monitor. This approach permits advances in specifying the low-level data collection, ...

18 Information systems interoperability: What lies beneath?
Jinsoo Park, Sudha Ram
October 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 4

Full text available: pdf(824.78 KB) Additional Information: full citation, abstract, references, index terms

Interoperability is the most critical issue facing businesses that need to access information from multiple information systems. Our objective in this research is to develop a comprehensive framework and methodology to facilitate semantic interoperability among distributed and heterogeneous information systems. A comprehensive framework for managing various semantic conflicts is proposed. Our proposed framework provides a unified view of the underlying representational and reasoning formalism ...

Keywords: Information integration, mediators, ontology, semantic conflict resolution, semantic heterogeneity

19 Abstraction-based intrusion detection in distributed environments
Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang
November 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 4

Full text available: pdf(590.61 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Abstraction is an important issue in intrusion detection, since it not only hides the difference between heterogeneous systems, but also allows generic intrusion-detection models. However, abstraction is an error-prone process and is not well supported in current intrusion-detection systems (IDSs). This article presents a hierarchical model to support attack specification and event abstraction in distributed intrusion detection. The model involves three concepts: *system view*, *signature* ...

Keywords: *Cooperative information systems, heterogeneous systems, intrusion detection, misuse detection*

20 The state of the art in distributed query processing
Donald Kossmann
December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

Full text available: pdf(455.39 KB) Additional Information: full citation, abstract, references, citings, index terms

Distributed data processing is becoming a reality. Businesses want to do it for many reasons, and they often must do it in order to stay competitive. While much of the infrastructure for distributed data processing is already there (e.g., modern network technology), a number of issues make distributed data processing still a complex undertaking: (1) distributed systems can become very large, involving thousands of heterogeneous sites including PCs and mainframe server machines; (2) the stat ...

Keywords: caching, client-server databases, database application systems, dissemination-based information systems, economic models for query processing, middleware, multitier architectures, query execution, query optimization, replication, wrappers

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21 Extending Java for high-level Web service construction

Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Full text available: pdf(947.02 KB) Additional Information: full citation, abstract, references, citings, index terms

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

22 Special issue on prototypes of deductive database systems: The aditi deductive database system

Jayen Vaghani, Kotagiri Ramamohanarao, David B. Kemp, Zoltan Somogyi, Peter J. Stuckey, Tim S. Leask, James Harland

April 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 2

Full text available: pdf(2.67 MB) Additional Information: full citation, abstract, references, citings

Deductive databases generalize relational databases by providing support for recursive views and non-atomic data. Aditi is a deductive system based on the client-server model; it is inherently multi-user and capable of exploiting parallelism on shared-memory multiprocessors. The back-end uses relational technology for efficiency in the management of disk-based data and uses optimization algorithms especially developed for the bottom-up evaluation of logical queries involving recursion. The front ...

Keywords: implementation, logic, multi-user, parallelism, relational database

23 The O2 system

O. Deux

October 1991 **Communications of the ACM**, Volume 34 Issue 10

Full text available: pdf(7.18 MB) Additional Information: full citation, references, citings, index terms

Keywords: O2, Object-oriented database systems

24 Evolution of Data-Base Management Systems
James P. Fry, Edgar H. Sibley
January 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1
Full text available: pdf(2.63 MB) Additional Information: full citation, references, citings, index terms

25 Reviewed articles: SIGAda 2001 workshop, "creating a symbiotic relationship between XML and Ada"
Robert C. Leif
September 2002 **ACM SIGAda Ada Letters**, Volume XXII Issue 3
Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, citings, index terms

The purpose of the workshop was to organize the Ada community to take advantage of the opportunity to create Ada applications that are operating systems independent because they are based on a web technology, XML, Extensible Markup Language. The commercial use of the Internet is the driving force behind XML. Four elements of XML, which together are sufficient to build a web application, and all employ the same syntax were described. These are XML; its schema; the Extensible Stylesheet Language, ...

26 Semantic data models
Joan Peckham, Fred Maryanski
September 1988 **ACM Computing Surveys (CSUR)**, Volume 20 Issue 3
Full text available: pdf(3.10 MB) Additional Information: full citation, abstract, references, citings, index terms

Semantic data models have emerged from a requirement for more expressive conceptual data models. Current generation data models lack direct support for relationships, data abstraction, inheritance, constraints, unstructured objects, and the dynamic properties of an application. Although the need for data models with richer semantics is widely recognized, no single approach has won general acceptance. This paper describes the generic properties of semantic data models and presents a represen ...

27 Testing and debugging: Using Hy+ for network management and distributed debugging
Mariano P. Consens, Masum Z. Hasan, Alberto O. Mendelzon
October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1**
Full text available: pdf(1.68 MB) Additional Information: full citation, abstract, references

A network manager managing a computer network or a programmer attempting to understand and debug a distributed program both must deal with large volumes of data. Visualization is widely believed to help in these and similar tasks. We contend that visualization is indeed useful, but only if accompanied of the following facilities: abstraction, filtering, and layout control. The **Hy+** visualization system and GraphLog query language provide these facilities. They support not ...

28 Software evolution through iterative prototyping
Neil Goldman, K. Narayanaswamy
June 1992 **Proceedings of the 14th international conference on Software engineering**
Full text available: pdf(1.55 MB) Additional Information: full citation, references, citings, index terms

29 Symmetry and reduced symmetry in model checking
A. Prasad Sistla, Patrice Godefroid

July 2004 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 26 Issue 4

Full text available: pdf(387.73 KB) Additional Information: full citation, abstract, references, index terms

Symmetry reduction methods exploit symmetry in a system in order to efficiently verify its temporal properties. Two problems may prevent the use of symmetry reduction in practice: (1) the property to be checked may distinguish symmetric states and hence not be preserved by the symmetry, and (2) the system may exhibit little or no symmetry. In this article, we present a general framework that addresses both of these problems. We introduce "Guarded Annotated Quotient Structures" for compactly repr ...

Keywords: State space explosion, formula decomposition, model checking algorithms and tools, symmetry reductions, temporal logics

30 HyperFile: a data and query model for documents

Chris Clifton, Hector Garcia-Molina, David Bloom

January 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 1

Full text available: pdf(2.04 MB) Additional Information: full citation, abstract, references, citings

Non-quantitative information such as documents and pictures pose interesting new problems in the database world. Traditional data models and query languages do not provide appropriate support for this information. Such data are typically stored in file systems, which do not provide the security, integrity, or query features of database management systems. The hypertext model has emerged as a good interface to this information; however, *finding* information using hypertext browsing does not ...

Keywords: hypertext, indexing, user interface

31 Graphical input interaction technique (GIIT)

James J. Thomas, Griffith Hamlin

January 1983 **ACM SIGGRAPH Computer Graphics**, Volume 17 Issue 1

Full text available: pdf(2.34 MB) Additional Information: full citation, abstract, references

The contents of this document are the result of intensive discussions among the workshop participants. The names listed by each section are the discussion leaders and principal editors. Without the dedicated enthusiam from all the participants, the ideas presented could not have been formulated.

32 Database models and theoretical foundations: IAM: an inferential abstract modeling approach to design of conceptual schema

Janis A. Bubenko Jr

August 1977 **Proceedings of the 1977 ACM SIGMOD international conference on Management of data**

Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, references, citings

A method for designing a conceptual schema (information model) for a data base is presented. The basic notion is that a conceptual schema is designed by collecting and integrating 'local' user information requirements and analysis of information inference relationships. The procedure consists of the following phases: 1) collection and specification of information requirements, 2) entity classification, 3) specification of functional dependencies, 4) abstract object specification, integration and ...

33 Towards an evolutive kernel of mesurements on Ada sources developed on an integrated software engineering environmentsoftware engineering environment

Henry Basson, Jean Claude Derniame

July 1990 **Proceedings of the seventh Washington Ada symposium on Ada**

Full text available: Additional Information:

pdf(1.12 MB) full citation, references, citings, index terms

Keywords: Ada language, integrated software engineering environment, software quality metrices, software quality metrics

34 CDuce: an XML-centric general-purpose language
Véronique Benzaken, Giuseppe Castagna, Alain Frisch
August 2003 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN international conference on Functional programming**, Volume 38 Issue 9

Full text available: pdf(242.16 KB) Additional Information: full citation, abstract, references, citings, index terms

We present the functional language CDuce, discuss some design issues, and show its adequacy for working with XML documents. Distinctive features of CDuce are a powerful pattern matching, first class functions, overloaded functions, a very rich type system (arrows, sequences, pairs, records, intersections, unions, differences), precise type inference for patterns and error localization, and a natural interpretation of types as sets of values. We also outline some important implementation issue ...

***Keywords**: CDuce, XML, XML-processing, type systems*

35 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

36 Machine learning in automated text categorization
Fabrizio Sebastiani
March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(524.41 KB) Additional Information: full citation, abstract, references, citings, index terms

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification

37 Types and persistence in database programming languages
Malcolm P. Atkinson, O. Peter Buneman
June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Full text available: pdf(7.91 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

38 Technical reports
SIGACT News Staff
April 1981 **ACM SIGACT News**, Volume 13 Issue 2
Full text available: pdf(2.64 MB) Additional Information: full citation

39 Information visualisation using composable layouts and visual sets
Tim Pattison, Rudi Vernik, Matthew Phillips
December 2001 **Australian symposium on Information visualisation - Volume 9**
Full text available: pdf(1.92 MB) Additional Information: full citation, abstract, references, index terms

This paper demonstrates the application of graph drawing and information visualisation techniques to the visualisation of information which can be modelled as an attributed graph. An attributed graph can be used to model a wide range of different types of information, including system descriptions and database content. We propose the novel Composable Layouts and Visual Sets (CLOVIS) class of views, and describe supporting software component infrastructure, including a user interface for ...

Keywords: attributed graph, clustered graph, database visualisation, graph drawing, layout composition, overlay, tree map

40 The University of Alberta user interface management system
Mark Green
July 1985 **ACM SIGGRAPH Computer Graphics , Proceedings of the 12th annual conference on Computer graphics and interactive techniques**, Volume 19 Issue 3
Full text available: pdf(878.20 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper the design and implementation of the University of Alberta user interface management system (UIMS) is discussed. This UIMS is based on the Seeheim model of user interfaces, which divides the user interface into three separate components. The Seeheim model of user interfaces is discussed along with its relationship to the design of UIMSs. The techniques used to design the three user interface components are briefly presented. A mixture of interactive and written notations are used i ...

Keywords: human-computer interaction, user interface design, user interface management systems

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JNL = Journal or Magazine **CNF** = Conference **STD** = Standard

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1 **An XML alternative for performance and security: ASN.1**
Mundy, D.; Chadwick, D.W.;
IT Professional , Volume: 6 , Issue: 1 , Jan.-Feb. 2004
Pages:30 - 36

[Abstract] [PDF Full-Text (390 KB)] **IEEE JNL**

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2 **Open metadata formats: efficient XML-based communication for heterogeneous distributed systems**
Widener, P.; Schwan, K.; Eisenhauer, G.;
Distributed Computing Systems, 2001. 21st International Conference on. , 16 April 2001
Pages:739 - 742

[Abstract] [PDF Full-Text (308 KB)] **IEEE CNF**

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3 **Open metadata formats: efficient XML-based communication for hi performance computing**
Widener, P.; Eisenhauer, G.; Schwan, K.;
High Performance Distributed Computing, 2001. Proceedings. 10th IEEE International Symposium on , 7-9 Aug. 2001
Pages:371 - 380

[Abstract] [PDF Full-Text (784 KB)] **IEEE CNF**
